SEQUENCE LISTING

(1) GENERAL INFORMATION
(i) APPLICANT: Lynn Bergmeyer
Thomas J. Cummins
John B. Findlay
JoAnne H. Kerschner
(ii) TITLE OF THE INVENTION: DIAGNOSTIC COMPOSITIONS, ELEMENTS, METHODS AND TEST KITS FOR AMPLIFICATION AND DETECTION OF HUMAN CMV DNA USING PRIMERS HAVING MATCHED MELTING TEMPERATURES
(iii) NUMBER OF SEQUENCES: 26
(iv) CORRESPONDENCE ADDRESS:
(A) ADDRESSEE: Eastman Kodak Company,
Patent Legal Staff
(B) STREET: 343 State Street
(C) CITY: Rochester
(D) STATE: New York
(E) COUNTRY: U.S.A.
(F) ZIP: 1 4 6 5 0 - 2 2 0 1
(v) COMPUTER READABLE FORM:
(A) MEDIUM TYPE: Diskette, 3.5 inch, 1.44 MB storage (IBM)
(B) COMPUTER: IBM PS/2
(C) OPERATING SYSTEM: MS-DOS Version 3.3
(D) SOFTWARE: PC-8 (Word for Windows)
(vi) CURRENT APPLICATION DATA:
(A) APPLICATION NUMBER: To Be Assigned
(B) FILING DATE: To Be Assigned
(C) CLASSIFICATION: To Be Assigned
(vii) PRIOR APPLICATION DATE: None
(viii) ATTORNEY/AGENT INFORMATION:
(A) NAME: Tucker, J. Lanny
(B) REGISTRATION NUMBER: 27,678
(C) REFERENCE/DOCKET NUMBER: 67270
(ix) TELECOMMUNICATION INFORMATION:
(A) TELEPHONE: (716) 722-9332
(B) TELEFAX: (716) 477-4646

(2) INFORMATION FOR SEQ ID:NO:1
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 25 nucleotides
(B) TYPE: Nucleic acid
(C) STRANDEDNESS: Single
(D) TOPOLOGY: Linear
(ii) MOLECULE TYPE: Primer for hCMV DNA
(iii) HYPOTHETICAL: No
(iv) ANTI-SENSE: No
(vi) ORIGINAL SOURCE: Synthetically prepared
(vii) IMMEDIATE SOURCE: Same

See pp. 1 & 6

This colon is not correct. Please delete this throughout the sequence listing. The computer sees it as an error. (I suggest a "search and replace" function for all this: Search for all " ID: " & replace with " ID "), space

(x) PUBLICATION INFORMATION: U.S. 5,147,777
(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:1

GAGGCTATTG TAGCCTACAC TTTGG 25

(3) INFORMATION FOR SEQ ID:NO:2
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 25 nucleotides
(B) TYPE: Nucleic acid
(C) STRANDEDNESS: Single
(D) TOPOLOGY: Linear
(ii) MOLECULE TYPE: Primer for hCMV DNA
(iii) HYPOTHETICAL: No
(iv) ANTI-SENSE: No
(vi) ORIGINAL SOURCE: Synthetically prepared
(vii) IMMEDIATE SOURCE: Same
(x) PUBLICATION INFORMATION: U.S. 5,147,777
(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:2

CAGCACCATC CTCCTCTTCC TCTGG 25

(4) INFORMATION FOR SEQ ID:NO:3
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 25 nucleotides
(B) TYPE: Nucleic acid
(C) STRANDEDNESS: Single
(D) TOPOLOGY: Linear
(ii) MOLECULE TYPE: Primer for hCMV DNA
(iii) HYPOTHETICAL: No
(iv) ANTI-SENSE: No
(vi) ORIGINAL SOURCE: Synthetically prepared
(vii) IMMEDIATE SOURCE: Same
(x) PUBLICATION INFORMATION: None
(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:3

TGCACTGCCA GGTGCTTCGG CTCAT 25

(5) INFORMATION FOR SEQ ID:NO:4
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 25 nucleotides
(B) TYPE: Nucleic acid
(C) STRANDEDNESS: Single
(D) TOPOLOGY: Linear
(ii) MOLECULE TYPE: Primer for hCMV DNA
(iii) HYPOTHETICAL: No
(iv) ANTI-SENSE: No
(vi) ORIGINAL SOURCE: Synthetically prepared
(vii) IMMEDIATE SOURCE: Same
(x) PUBLICATION INFORMATION: U.S. 5,147,777
(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:4

CACCACGCAG CGGCCCTTGA TGTTT 25

(6) INFORMATION FOR SEQ ID:NO:5
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 30 nucleotides
(B) TYPE: Nucleic acid
(C) STRANDEDNESS: Single
(D) TOPOLOGY: Linear
(ii) MOLECULE TYPE: Probe for hCMV DNA
(iii) HYPOTHETICAL: No
(iv) ANTI-SENSE: No
(vi) ORIGINAL SOURCE: Synthetically prepared
(vii) IMMEDIATE SOURCE: Same
(x) PUBLICATION INFORMATION: U.S. 5,147,777
(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:5

GGTGTCACCC CCAGAGTCCC CTGTACCCGC 30

(7) INFORMATION FOR SEQ ID:NO:6
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 30 nucleotides
(B) TYPE: Nucleic acid
(C) STRANDEDNESS: Single
(D) TOPOLOGY: Linear
(ii) MOLECULE TYPE: Probe for hCMV DNA
(iii) HYPOTHETICAL: No
(iv) ANTI-SENSE: No
(vi) ORIGINAL SOURCE: Synthetically prepared
(vii) IMMEDIATE SOURCE: Same
(x) PUBLICATION INFORMATION: U.S. 5,147,777
(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:6

GACACAGTGT CCTCCCGCTC CTCCTGAGCA 30

(8) INFORMATION FOR SEQ ID:NO:7
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 30 nucleotides
(B) TYPE: Nucleic acid
(C) STRANDEDNESS: Single
(D) TOPOLOGY: Linear
(ii) MOLECULE TYPE: Probe for hCMV DNA
(iii) HYPOTHETICAL: No
(iv) ANTI-SENSE: No
(vi) ORIGINAL SOURCE: Synthetically prepared
(vii) IMMEDIATE SOURCE: Same
(x) PUBLICATION INFORMATION: U.S. 5,147,777
(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:7

GTGGAAGGCG GCTCGCTGGA AGCCGGTCGT 30

(9) INFORMATION FOR SEQ ID:NO:8
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 30 nucleotides
(B) TYPE: Nucleic acid
(C) STRANDEDNESS: Single
(D) TOPOLOGY: Linear
(ii) MOLECULE TYPE: Probe for hCMV DNA
(iii) HYPOTHETICAL: No
(iv) ANTI-SENSE: No
(vi) ORIGINAL SOURCE: Synthetically prepared
(vii) IMMEDIATE SOURCE: Same
(x) PUBLICATION INFORMATION: U.S. 5,147,777
(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:8

GAACCGAGGG CCGGCTCACC TCTATGTTGG 30

(10) INFORMATION FOR SEQ ID:NO:9
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 41 nucleotides
(B) TYPE: Nucleic acid
(C) STRANDEDNESS: Single
(D) TOPOLOGY: Linear
(ii) MOLECULE TYPE: Probe for HIV-I DNA
(iii) HYPOTHETICAL: No
(iv) ANTI-SENSE: No
(vi) ORIGINAL SOURCE: Synthetically prepared
(vii) IMMEDIATE SOURCE: Same
(x) PUBLICATION INFORMATION: Unknown
(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:9

ATCCTGGGAT TAAATAAAAT AGTAAGAATG TATAGCCCTA C 41

(11) INFORMATION FOR SEQ ID:NO:10
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 28 nucleotides
(B) TYPE: Nucleic acid
(C) STRANDEDNESS: Single
(D) TOPOLOGY: Linear
(ii) MOLECULE TYPE: Primer for HIV-I DNA
(iii) HYPOTHETICAL: No
(iv) ANTI-SENSE: No
(vi) ORIGINAL SOURCE: Synthetically prepared
(vii) IMMEDIATE SOURCE: Same
(x) PUBLICATION INFORMATION: Unknown
(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:10

AGTGGGGGGA CATCAAGCAG CCATGCAA 28

(12) INFORMATION FOR SEQ ID:NO:11
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 26 nucleotides
(B) TYPE: Nucleic acid
(C) STRANDEDNESS: Single
(D) TOPOLOGY: Linear
(ii) MOLECULE TYPE: Primer for HIV-I DNA
(iii) HYPOTHETICAL: No
(iv) ANTI-SENSE: No
(vi) ORIGINAL SOURCE: Synthetically prepared
(vii) IMMEDIATE SOURCE: Same
(x) PUBLICATION INFORMATION: None
(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:11

CTTGGTTCTC TCATCTGGCC TGGTGC 26

(13) INFORMATION FOR SEQ ID:NO:12
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 28 nucleotides
(B) TYPE: Nucleic acid
(C) STRANDEDNESS: Single
(D) TOPOLOGY: Linear
(ii) MOLECULE TYPE: Primer for HIV-I DNA
(iii) HYPOTHETICAL: No
(iv) ANTI-SENSE: No
(vi) ORIGINAL SOURCE: Synthetically prepared
(vii) IMMEDIATE SOURCE: Same
(x) PUBLICATION INFORMATION: None
(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:12

TAGCACCCAC CAGGGCAAAG AGAAGAGT 28

(14) INFORMATION FOR SEQ ID:NO:13
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 28 nucleotides
(B) TYPE: Nucleic acid
(C) STRANDEDNESS: Single
(D) TOPOLOGY: Linear
(ii) MOLECULE TYPE: Primer for HIV-I DNA
(iii) HYPOTHETICAL: No
(iv) ANTI-SENSE: No
(vi) ORIGINAL SOURCE: Synthetically prepared
(vii) IMMEDIATE SOURCE: Same
(x) PUBLICATION INFORMATION: None
(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:13

AGATGCTGTT GCGCCTCAAT AGCCCTCA 28

(15) INFORMATION FOR SEQ ID:NO:14
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 28 nucleotides
(B) TYPE: Nucleic acid
(C) STRANDEDNESS: Single
(D) TOPOLOGY: Linear
(ii) MOLECULE TYPE: Probe for HIV-I DNA
(iii) HYPOTHETICAL: No
(iv) ANTI-SENSE: No
(vi) ORIGINAL SOURCE: Synthetically prepared
(vii) IMMEDIATE SOURCE: Same
(x) PUBLICATION INFORMATION: None
(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:14

GAGACCATCA ATGAGGAAGC TGCAGAAT 28

(16) INFORMATION FOR SEQ ID:NO:15
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 28 nucleotides
(B) TYPE: Nucleic acid
(C) STRANDEDNESS: Single
(D) TOPOLOGY: Linear
(ii) MOLECULE TYPE: Probe for HIV-I DNA
(iii) HYPOTHETICAL: No
(iv) ANTI-SENSE: No
(vi) ORIGINAL SOURCE: Synthetically prepared
(vii) IMMEDIATE SOURCE: Same
(x) PUBLICATION INFORMATION: None
(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:15

GTGCAGCAGC AGAACAATTT GCTGAGGG 28

(17) INFORMATION FOR SEQ ID:NO:16
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 27 nucleotides
(B) TYPE: Nucleic acid
(C) STRANDEDNESS: Single
(D) TOPOLOGY: Linear
(ii) MOLECULE TYPE: Primer for hCMV DNA
(iii) HYPOTHETICAL: No
(iv) ANTI-SENSE: No
(vi) ORIGINAL SOURCE: Synthetically prepared
(vii) IMMEDIATE SOURCE: Same
(x) PUBLICATION INFORMATION: None
(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:16

5' CATTCCCACT GACTTTCTGA CGCACGT 3' 27

delete (sequences 1-15 are correct. sequences 16 → 26 are not because of this).

(18) INFORMATION FOR SEQ ID:NO:17
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 24 nucleotides
(B) TYPE: Nucleic acid
(C) STRANDEDNESS: Single
(D) TOPOLOGY: Linear
(ii) MOLECULE TYPE: Primer for hCMV DNA
(iii) HYPOTHETICAL: No
(iv) ANTI-SENSE: No
(vi) ORIGINAL SOURCE: Synthetically prepared
(vii) IMMEDIATE SOURCE: Same
(x) PUBLICATION INFORMATION: None
(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:17

5'-TGAGGTCGTG GAACTTGATG GCGT-3' 24

(19) INFORMATION FOR SEQ ID:NO:18
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 30 nucleotides
(B) TYPE: Nucleic acid
(C) STRANDEDNESS: Single
(D) TOPOLOGY: Linear
(ii) MOLECULE TYPE: Probe for hCMV DNA
(iii) HYPOTHETICAL: No
(iv) ANTI-SENSE: No
(vi) ORIGINAL SOURCE: Synthetically prepared
(vii) IMMEDIATE SOURCE: Same
(x) PUBLICATION INFORMATION: None
(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:18

5'-GGTCATCGCC GTAGTAGATG CGTAAGGCCT-3' 30

(20) INFORMATION FOR SEQ ID:NO:19
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 26 nucleotides
(B) TYPE: Nucleic acid
(C) STRANDEDNESS: Single
(D) TOPOLOGY: Linear
(ii) MOLECULE TYPE: Primer for avian
endogenous
provirus ev-1 DNA
(iii) HYPOTHETICAL: No
(iv) ANTI-SENSE: No
(vi) ORIGINAL SOURCE: Synthetically prepared
(vii) IMMEDIATE SOURCE: Same
(x) PUBLICATION INFORMATION: None
(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:19

5'-GGAATGACGC AAGGACATAT GGGCGT-3' 26

(21) INFORMATION FOR SEQ ID:NO:20
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 26 nucleotides
(B) TYPE: Nucleic acid
(C) STRANDEDNESS: Single
(D) TOPOLOGY: Linear
(ii) MOLECULE TYPE: Primer for avian endogenous provirus ev-1 DNA
(iii) HYPOTHETICAL: No
(iv) ANTI-SENSE: No
(vi) ORIGINAL SOURCE: Synthetically prepared
(vii) IMMEDIATE SOURCE: Same
(x) PUBLICATION INFORMATION: None
(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:20

5'-CCCAGGTGCA CACCAATGTG GTGGAT-3' 26

(22) INFORMATION FOR SEQ ID:NO:21
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 25 nucleotides
(B) TYPE: Nucleic acid
(C) STRANDEDNESS: Single
(D) TOPOLOGY: Linear
(ii) MOLECULE TYPE:Primer for positive control target DNA
(iii) HYPOTHETICAL: No
(iv) ANTI-SENSE: No
(vi) ORIGINAL SOURCE: Synthetically prepared
(vii) IMMEDIATE SOURCE: Same
(x) PUBLICATION INFORMATION: None
(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:21

5'-GGACTGTGCG CGTTGTATAC CCTGC-3' 25

(23) INFORMATION FOR SEQ ID:NO:22
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 25 nucleotides
(B) TYPE: Nucleic acid
(C) STRANDEDNESS: Single
(D) TOPOLOGY: Linear
(ii) MOLECULE TYPE:Primer for positive control target DNA
(iii) HYPOTHETICAL: No
(iv) ANTI-SENSE: No
(vi) ORIGINAL SOURCE: Synthetically prepared
(vii) IMMEDIATE SOURCE: Same
(x) PUBLICATION INFORMATION: None
(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:22

5'-ACTCCCGAAG CGAATGGCAC GTGGA-3' 25

(24) INFORMATION FOR SEQ ID:NO:23
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 25 nucleotides
(B) TYPE: Nucleic acid
(C) STRANDEDNESS: Single
(D) TOPOLOGY: Linear
(ii) MOLECULE TYPE:Primer for positive control target DNA
(iii) HYPOTHETICAL: No
(iv) ANTI-SENSE: No
(vi) ORIGINAL SOURCE: Synthetically prepared
(vii) IMMEDIATE SOURCE: Same
(x) PUBLICATION INFORMATION: None
(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:23

5'-CATAGCTTGT GCCCGTGTGG CACGT-3' 25

(25) INFORMATION FOR SEQ ID:NO:24
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 25 nucleotides
(B) TYPE: Nucleic acid
(C) STRANDEDNESS: Single
(D) TOPOLOGY: Linear
(ii) MOLECULE TYPE:Primer for positive control target DNA
(iii) HYPOTHETICAL: No
(iv) ANTI-SENSE: No
(vi) ORIGINAL SOURCE: Synthetically prepared
(vii) IMMEDIATE SOURCE: Same
(x) PUBLICATION INFORMATION: None
(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:24

5'-CCAAGACGAG ACCGTCAGAG CTGGT-3' 25

(26) INFORMATION FOR SEQ ID:NO:25
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 26 nucleotides
(B) TYPE: Nucleic acid
(C) STRANDEDNESS: Single
(D) TOPOLOGY: Linear
(ii) MOLECULE TYPE: Probe for avian endogenous provirus ev-1 DNA
(iii) HYPOTHETICAL: No
(iv) ANTI-SENSE: No

(vi)ORIGINAL SOURCE: Synthetically prepared
(vii) IMMEDIATE SOURCE: Same
(x)PUBLICATION INFORMATION: None
(xi)SEQUENCE DESCRIPTION: SEQ ID:NO:25

5'-AAGCTGTTGC CGCCATCAAA TAAACG-3' 26

(27)INFORMATION FOR SEQ ID:NO:26
(i)SEQUENCE CHARACTERISTICS:
(A)LENGTH: 30 nucleotides
(B)TYPE: Nucleic acid
(C)STRANDEDNESS: Single
(D)TOPOLOGY: Linear
(ii)MOLECULE TYPE:Probe for positive
control target DNA
(iii) HYPOTHETICAL: No
(iv)ANTI-SENSE: No
(vi)ORIGINAL SOURCE: Synthetically prepared
(vii) IMMEDIATE SOURCE: Same
(x)PUBLICATION INFORMATION: None
(xi)SEQUENCE DESCRIPTION: SEQ ID:NO:26

5'-CTGCGTTAGA CCGAGAACTG TGGATAAAGG-3' 30

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/08/062,021

DATE: 06/04/93
TIME: 15:24:00
S5726

LINE	ERROR	ORIGINAL TEXT
24	Response Exceeds Line Limitations	inch, 1.44 MB storage (IBM)
27	Response Exceeds Line Limitations	3.3
30	Wrong application Serial Number	(A)APPLICATION NUMBER: To Be Assigned
32	Wrong Classification	(C)CLASSIFICATION: To Be Assigned
54	Wrong Sequence Number	(xi)SEQUENCE DESCRIPTION: SEQ ID:NO:1
70	Wrong Sequence Number	(xi)SEQUENCE DESCRIPTION: SEQ ID:NO:2
88	Wrong Sequence Number	(xi)SEQUENCE DESCRIPTION: SEQ ID:NO:3
104	Wrong Sequence Number	(xi)SEQUENCE DESCRIPTION: SEQ ID:NO:4
122	Wrong Sequence Number	(xi)SEQUENCE DESCRIPTION: SEQ ID:NO:5
138	Wrong Sequence Number	(xi)SEQUENCE DESCRIPTION: SEQ ID:NO:6
156	Wrong Sequence Number	(xi)SEQUENCE DESCRIPTION: SEQ ID:NO:7
172	Wrong Sequence Number	(xi)SEQUENCE DESCRIPTION: SEQ ID:NO:8
190	Wrong Sequence Number	(xi)SEQUENCE DESCRIPTION: SEQ ID:NO:9
206	Wrong Sequence Number	(xi)SEQUENCE DESCRIPTION: SEQ ID:NO:10
224	Wrong Sequence Number	(xi)SEQUENCE DESCRIPTION: SEQ ID:NO:11
240	Wrong Sequence Number	(xi)SEQUENCE DESCRIPTION: SEQ ID:NO:12
258	Wrong Sequence Number	(xi)SEQUENCE DESCRIPTION: SEQ ID:NO:13
274	Wrong Sequence Number	(xi)SEQUENCE DESCRIPTION: SEQ ID:NO:14
292	Wrong Sequence Number	(xi)SEQUENCE DESCRIPTION: SEQ ID:NO:15
308	Wrong Sequence Number	(xi)SEQUENCE DESCRIPTION: SEQ ID:NO:16
310	Wrong Nucleic Acid Designator (5)	5'-CATTCCCACT GACTTTCTGA CGCACGT-3' 27
310	Wrong Nucleic Acid Designator (')	5'-CATTCCCACT GACTTTCTGA CGCACGT-3' 27
310	Wrong Nucleic Acid Designator (-)	5'-CATTCCCACT GACTTTCTGA CGCACGT-3' 27
310	Wrong Nucleic Acid Designator (-)	5'-CATTCCCACT GACTTTCTGA CGCACGT-3' 27
310	Wrong Nucleic Acid Designator (3)	5'-CATTCCCACT GACTTTCTGA CGCACGT-3' 27
310	Wrong Nucleic Acid Designator (')	5'-CATTCCCACT GACTTTCTGA CGCACGT-3' 27
326	Wrong Sequence Number	(xi)SEQUENCE DESCRIPTION: SEQ ID:NO:17
328	Wrong Nucleic Acid Designator (5)	5'-TGAGGTCGTG GAACTTGATG GCGT-3' 24
328	Wrong Nucleic Acid Designator (')	5'-TGAGGTCGTG GAACTTGATG GCGT-3' 24
328	Wrong Nucleic Acid Designator (-)	5'-TGAGGTCGTG GAACTTGATG GCGT-3' 24
328	Wrong Nucleic Acid Designator (-)	5'-TGAGGTCGTG GAACTTGATG GCGT-3' 24
328	Wrong Nucleic Acid Designator (3)	5'-TGAGGTCGTG GAACTTGATG GCGT-3' 24
328	Wrong Nucleic Acid Designator (')	5'-TGAGGTCGTG GAACTTGATG GCGT-3' 24
342	Wrong Sequence Number	(xi)SEQUENCE DESCRIPTION: SEQ ID:NO:18
344	Wrong Nucleic Acid Designator (5)	5'-GGTCATCGCC GTAGTAGATG CGTAAGGCCT-3'
344	Wrong Nucleic Acid Designator (')	5'-GGTCATCGCC GTAGTAGATG CGTAAGGCCT-3'
344	Wrong Nucleic Acid Designator (-)	5'-GGTCATCGCC GTAGTAGATG CGTAAGGCCT-3'
344	Wrong Nucleic Acid Designator (-)	5'-GGTCATCGCC GTAGTAGATG CGTAAGGCCT-3'
344	Wrong Nucleic Acid Designator (3)	5'-GGTCATCGCC GTAGTAGATG CGTAAGGCCT-3'
344	Wrong Nucleic Acid Designator (')	5'-GGTCATCGCC GTAGTAGATG CGTAAGGCCT-3'
362	Wrong Sequence Number	(xi)SEQUENCE DESCRIPTION: SEQ ID:NO:19
364	Wrong Nucleic Acid Designator (5)	5'-GGAATGACGC AAGGACATAT GGGCGT-3' 26
364	Wrong Nucleic Acid Designator (')	5'-GGAATGACGC AAGGACATAT GGGCGT-3' 26
364	Wrong Nucleic Acid Designator (-)	5'-GGAATGACGC AAGGACATAT GGGCGT-3' 26
364	Wrong Nucleic Acid Designator (-)	5'-GGAATGACGC AAGGACATAT GGGCGT-3' 26
364	Wrong Nucleic Acid Designator (3)	5'-GGAATGACGC AAGGACATAT GGGCGT-3' 26
364	Wrong Nucleic Acid Designator (')	5'-GGAATGACGC AAGGACATAT GGGCGT-3' 26
380	Wrong Sequence Number	(xi)SEQUENCE DESCRIPTION: SEQ ID:NO:20
382	Wrong Nucleic Acid Designator (5)	5'-CCCAGGTGCA CACCAATGTG GTGGAT-3' 26
382	Wrong Nucleic Acid Designator (')	5'-CCCAGGTGCA CACCAATGTG GTGGAT-3' 26
382	Wrong Nucleic Acid Designator (-)	5'-CCCAGGTGCA CACCAATGTG GTGGAT-3' 26
382	Wrong Nucleic Acid Designator (-)	5'-CCCAGGTGCA CACCAATGTG GTGGAT-3' 26

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/08/062,021

DATE: 06/04/93
TIME: 15:24:00
S5726

LINE	ERROR	ORIGINAL TEXT
382	Wrong Nucleic Acid Designator (3)	5'-CCCAGGTGCA CACCAATGTG GTGGAT-3' 26
382	Wrong Nucleic Acid Designator (')	5'-CCCAGGTGCA CACCAATGTG GTGGAT-3' 26
399	Wrong Sequence Number	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:21
401	Wrong Nucleic Acid Designator (5)	5'-GGACTGTGCG CGTTGTATAC CCTGC-3' 25
401	Wrong Nucleic Acid Designator (')	5'-GGACTGTGCG CGTTGTATAC CCTGC-3' 25
401	Wrong Nucleic Acid Designator (-)	5'-GGACTGTGCG CGTTGTATAC CCTGC-3' 25
401	Wrong Nucleic Acid Designator (-)	5'-GGACTGTGCG CGTTGTATAC CCTGC-3' 25
401	Wrong Nucleic Acid Designator (3)	5'-GGACTGTGCG CGTTGTATAC CCTGC-3' 25
401	Wrong Nucleic Acid Designator (')	5'-GGACTGTGCG CGTTGTATAC CCTGC-3' 25
416	Wrong Sequence Number	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:22
418	Wrong Nucleic Acid Designator (5)	5'-ACTCCCGAAG CGAATGGCAC GTGGA-3' 25
418	Wrong Nucleic Acid Designator (')	5'-ACTCCCGAAG CGAATGGCAC GTGGA-3' 25
418	Wrong Nucleic Acid Designator (-)	5'-ACTCCCGAAG CGAATGGCAC GTGGA-3' 25
418	Wrong Nucleic Acid Designator (-)	5'-ACTCCCGAAG CGAATGGCAC GTGGA-3' 25
418	Wrong Nucleic Acid Designator (3)	5'-ACTCCCGAAG CGAATGGCAC GTGGA-3' 25
418	Wrong Nucleic Acid Designator (')	5'-ACTCCCGAAG CGAATGGCAC GTGGA-3' 25
435	Wrong Sequence Number	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:23
437	Wrong Nucleic Acid Designator (5)	5'-CATAGCTTGT GCCCGTGTGG CACGT-3' 25
437	Wrong Nucleic Acid Designator (')	5'-CATAGCTTGT GCCCGTGTGG CACGT-3' 25
437	Wrong Nucleic Acid Designator (-)	5'-CATAGCTTGT GCCCGTGTGG CACGT-3' 25
437	Wrong Nucleic Acid Designator (-)	5'-CATAGCTTGT GCCCGTGTGG CACGT-3' 25
437	Wrong Nucleic Acid Designator (3)	5'-CATAGCTTGT GCCCGTGTGG CACGT-3' 25
437	Wrong Nucleic Acid Designator (')	5'-CATAGCTTGT GCCCGTGTGG CACGT-3' 25
452	Wrong Sequence Number	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:24
454	Wrong Nucleic Acid Designator (5)	5'-CCAAGACGAG ACCGTCAGAG CTGGT-3' 25
454	Wrong Nucleic Acid Designator (')	5'-CCAAGACGAG ACCGTCAGAG CTGGT-3' 25
454	Wrong Nucleic Acid Designator (-)	5'-CCAAGACGAG ACCGTCAGAG CTGGT-3' 25
454	Wrong Nucleic Acid Designator (-)	5'-CCAAGACGAG ACCGTCAGAG CTGGT-3' 25
454	Wrong Nucleic Acid Designator (3)	5'-CCAAGACGAG ACCGTCAGAG CTGGT-3' 25
454	Wrong Nucleic Acid Designator (')	5'-CCAAGACGAG ACCGTCAGAG CTGGT-3' 25
472	Wrong Sequence Number	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:25
474	Wrong Nucleic Acid Designator (5)	5'-AAGCTGTTGC CGCCATCAAA TAAACG-3' 26
474	Wrong Nucleic Acid Designator (')	5'-AAGCTGTTGC CGCCATCAAA TAAACG-3' 26
474	Wrong Nucleic Acid Designator (-)	5'-AAGCTGTTGC CGCCATCAAA TAAACG-3' 26
474	Wrong Nucleic Acid Designator (-)	5'-AAGCTGTTGC CGCCATCAAA TAAACG-3' 26
474	Wrong Nucleic Acid Designator (3)	5'-AAGCTGTTGC CGCCATCAAA TAAACG-3' 26
474	Wrong Nucleic Acid Designator (')	5'-AAGCTGTTGC CGCCATCAAA TAAACG-3' 26
489	Wrong Sequence Number	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:26
491	Wrong Nucleic Acid Designator (5)	5'-CTGCGTTAGA CCGAGAACTG TGGATAAAGG-3'
491	Wrong Nucleic Acid Designator (')	5'-CTGCGTTAGA CCGAGAACTG TGGATAAAGG-3'
491	Wrong Nucleic Acid Designator (-)	5'-CTGCGTTAGA CCGAGAACTG TGGATAAAGG-3'
491	Wrong Nucleic Acid Designator (-)	5'-CTGCGTTAGA CCGAGAACTG TGGATAAAGG-3'
491	Wrong Nucleic Acid Designator (3)	5'-CTGCGTTAGA CCGAGAACTG TGGATAAAGG-3'
491	Wrong Nucleic Acid Designator (')	5'-CTGCGTTAGA CCGAGAACTG TGGATAAAGG-3'

SEQUENCE MISSING ITEM REPORT
PATENT APPLICATION US/08/062,021

DATE: 06/04/93
TIME: 15:24:00
S5726

MANDATORY IDENTIFIER THAT WAS NOT FOUND

APPLICATION NUMBER
FILING DATE

SEQUENCE CORRECTION REPORT
PATENT APPLICATION US/08/062,021

LINE	ORIGINAL TEXT	CORRECTED TEXT
3	(1) GENERAL INFORMATION	(1) GENERAL INFORMATION:
8	(ii) TITLE OF THE INVENTION: DIAGNOSTIC	(ii) TITLE OF INVENTION: DIAGNOSTIC
33	(vii) PRIOR APPLICATION DATE: None	(vii) PRIOR APPLICATION DATA: None
42	(2) INFORMATION FOR SEQ ID:NO:1	(2) INFORMATION FOR SEQ ID NO:NO:1:
54	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:1	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:1:
58	(3) INFORMATION FOR SEQ ID:NO:2	(2) INFORMATION FOR SEQ ID NO:NO:2:
70	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:2	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:2:
76	(4) INFORMATION FOR SEQ ID:NO:3	(2) INFORMATION FOR SEQ ID NO:NO:3:
88	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:3	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:3:
92	(5) INFORMATION FOR SEQ ID:NO:4	(2) INFORMATION FOR SEQ ID NO:NO:4:
104	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:4	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:4:
110	(6) INFORMATION FOR SEQ ID:NO:5	(2) INFORMATION FOR SEQ ID NO:NO:5:
122	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:5	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:5:
126	(7) INFORMATION FOR SEQ ID:NO:6	(2) INFORMATION FOR SEQ ID NO:NO:6:
138	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:6	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:6:
144	(8) INFORMATION FOR SEQ ID:NO:7	(2) INFORMATION FOR SEQ ID NO:NO:7:
156	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:7	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:7:
160	(9) INFORMATION FOR SEQ ID:NO:8	(2) INFORMATION FOR SEQ ID NO:NO:8:
172	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:8	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:8:
178	(10) INFORMATION FOR SEQ ID:NO:9	(2) INFORMATION FOR SEQ ID NO:NO:9:
190	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:9	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:9:
194	(11) INFORMATION FOR SEQ ID:NO:10	(2) INFORMATION FOR SEQ ID NO:NO:10:
206	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:10	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:10
212	(12) INFORMATION FOR SEQ ID:NO:11	(2) INFORMATION FOR SEQ ID NO:NO:11:
224	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:11	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:11
228	(13) INFORMATION FOR SEQ ID:NO:12	(2) INFORMATION FOR SEQ ID NO:NO:12:
240	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:12	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:12
246	(14) INFORMATION FOR SEQ ID:NO:13	(2) INFORMATION FOR SEQ ID NO:NO:13:
258	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:13	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:13
262	(15) INFORMATION FOR SEQ ID:NO:14	(2) INFORMATION FOR SEQ ID NO:NO:14:
274	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:14	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:14
280	(16) INFORMATION FOR SEQ ID:NO:15	(2) INFORMATION FOR SEQ ID NO:NO:15:
292	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:15	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:15
296	(17) INFORMATION FOR SEQ ID:NO:16	(2) INFORMATION FOR SEQ ID NO:NO:16:
308	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:16	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:16
314	(18) INFORMATION FOR SEQ ID:NO:17	(2) INFORMATION FOR SEQ ID NO:NO:17:
326	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:17	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:17
330	(19) INFORMATION FOR SEQ ID:NO:18	(2) INFORMATION FOR SEQ ID NO:NO:18:
342	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:18	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:18
348	(20) INFORMATION FOR SEQ ID:NO:19	(2) INFORMATION FOR SEQ ID NO:NO:19:
362	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:19	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:19
366	(21) INFORMATION FOR SEQ ID:NO:20	(2) INFORMATION FOR SEQ ID NO:NO:20:
380	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:20	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:20
386	(22) INFORMATION FOR SEQ ID:NO:21	(2) INFORMATION FOR SEQ ID NO:NO:21:
399	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:21	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:21
403	(23) INFORMATION FOR SEQ ID:NO:22	(2) INFORMATION FOR SEQ ID NO:NO:22:
416	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:22	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:22
422	(24) INFORMATION FOR SEQ ID:NO:23	(2) INFORMATION FOR SEQ ID NO:NO:23:
435	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:23	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:23
439	(25) INFORMATION FOR SEQ ID:NO:24	(2) INFORMATION FOR SEQ ID NO:NO:24:
452	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:24	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:24
458	(26) INFORMATION FOR SEQ ID:NO:25	(2) INFORMATION FOR SEQ ID NO:NO:25:
472	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:25	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:25

SEQUENCE CORRECTION REPORT
PATENT APPLICATION US/08/062,021

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LINE	ORIGINAL TEXT	CORRECTED TEXT
476	(27) INFORMATION FOR SEQ ID:NO:26	(2) INFORMATION FOR SEQ ID NO:NO:26:
489	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:26	(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:26